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APPLICATION N	0.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/019,068	068 04/26/2002		Alvin Ronlan	PVZ-007US	7796
959	7590	12/14/2004		EXAMINER	
		CFIELD, LLP.	KNABLE, GEOFFREY L		
	28 STATE STREET BOSTON, MA 02109			ART UNIT	PAPER NUMBER
				1733	
,				DATE MAILED: 12/14/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)						
	10/019,068	RONLAN, ALVIN						
Office Action Summary	Examiner	Art Unit						
	Geoffrey L. Knable	1733						
The MAILING DATE of this communication appeared for Reply	ppears on the cover sheet w	vith the correspondence address						
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, however, may a eply within the statutory minimum of th id will apply and will expire SIX (6) MC ute, cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).	n.					
Status								
1) Responsive to communication(s) filed on 23	September 2004.							
•	nis action is non-final.							
3) Since this application is in condition for allow	vance except for formal ma	tters, prosecution as to the merits is	6					
closed in accordance with the practice under	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims			-					
 4) ☐ Claim(s) 13-42 is/are pending in the application 4a) Of the above claim(s) is/are withdrest 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 13-33 and 35-42 is/are rejected. 7) ☐ Claim(s) 34 is/are objected to. 8) ☐ Claim(s) are subject to restriction and are subject. 	rawn from considèration.							
Application Papers								
9) The specification is objected to by the Examir	ner.							
10) The drawing(s) filed on is/are: a) □ ac	ccepted or b) objected to	by the Examiner.						
Applicant may not request that any objection to th	e drawing(s) be held in abeya	ince. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the corre			d).					
Priority under 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bure * See the attached detailed Office action for a list	nts have been received. nts have been received in iority documents have bee au (PCT Rule 17.2(a)).	Application No n received in this National Stage						
Attachment(s)								
1) Notice of References Cited (PTO-892)		Summary (PTO-413)						
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date		(s)/Mail Date Informal Patent Application (PTO-152)						

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1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

- 2. Claim 34 is objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim cannot refer to two different claim sets for different features (such a claim further is in essence a multiple dependent claim that does not refer back in the alternative only) i.e. claim 34 refers to both claim 31 *and* one of the other claims. See MPEP § 608.01(n). Accordingly, claim 34 has not been further treated on the merits.
- 3. Claims 13-17, 22-31 and 35-42 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Kenney (US 4,304,281) alone or optionally (for the 103) further in view Bredbeck (US 5,522,559) as applied in the last office action.

New claim 42 is rejected for the same reasons already of record with respect to claim 17.

4. Claims 13-17, 21, 26-29, 39, 40/13 and 42 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over GB 2,074,955 to Uniroyal as applied in the last office action.

New claim 42 is rejected for the same reasons already of record with respect to claim 17.

5. Claims 13-16, 21, 26 and 31 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Gunther (US 4,981,608) as applied in the last office action.

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6. Claims 13-33 and 35-42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ronlan (US 5,431,726) taken in view of Powell et al. (US 3,987,833), Clay (US 3,463,551), Fogal (US 5,073,217) and LeBlanc (US 6,128,952) as applied in the last office action.

New claim 42 is rejected for the same reasons already of record with respect to claim 17.

7. Applicant's arguments filed 9-23-2004 have been fully considered but they are not persuasive.

The 35 USC 112 rejections have been withdrawn in light of the amendments to the claims and the accompanying remarks.

The prior art rejections will however be maintained.

With respect to Kenney, it is argued that "Kenney's gelled composition does not flow under gravity or under the forces generated in the tire while running (see the abstract)." An complete examination of Kenney however reveals quite the contrary. In particular, note for example col. 3, lines 3-11 and Example 5 clearly indicate that this material does move under forces generated within the tire and it is thus submitted to be entirely reasonable to term this gelled material a visco-plastic gel. It is also argued that a visco-plastic gel would be unsuitable for puncture sealing as it would liquefy in the puncture. Whether or not this is accurate, it is not particularly relevant to Kenney, it being noted that in Kenney, it is the *particles* carried into the puncture that are effecting the sealing, not necessarily the gel – in fact the flow of the gel is critical to achieving the sealing – e.g. note col. 3, lines 24-31. It is also argued that just because it flows doesn't

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mean it is visco-plastic. This argument has been considered but is unpersuasive. In fact, applicant's argument that it does not flow (note above quote using the abstract) shows the material has elastic properties while the clear indication that the gel can also flow under a certain applied stress shows that it has both properties. The argument that this material cannot be classified as visco-plastic is therefore unconvincing and unsupported by any convincing line of argument. Applicant's arguments with respect to Kenney are therefore unconvincing.

As to GB '955 to Uniroyal, it is argued that this is a visco-stable gel and would not therefore be visco-plastic. This argument has been carefully considered but is unpersuasive. First, it is noted that the reference gel is polyglycol/silicon oxide based — this being entirely consistent with the gels described as suitable — e.g. page 5, lines 13-24 of the present specification. Is it applicant's position that there is no shear force under which the gel of the reference would flow? This would have to be the case for it to not be suitably described as visco-elastic. It is submitted that almost all such typical gels will exhibit both elastic and flow behavior under suitable stress and applicant has not convincingly argued or shown otherwise. While different gel formulations would be expected to exhibit different behaviors, the claims simply broadly refer to a visco-plastic gel, not any particular or specific degree of visco-plastic properties and thus it is not considered that broadly defining or referring to a "visco-plastic gel" in any way defines over a gel as in the reference.

Further, while GB '955's gel may be relatively stable, it is still a gel and it seems highly unlikely that it would not flow under at least some applied stress, it again being

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considered reasonable to term a glycol/silica based gel to be broadly visco-elastic absent some compelling and convincing argument to the contrary. A truly stable elastic material would be a cured rubber – certainly a gel is not equivalent to a cured rubber.

With respect to Gunther, it is argued that this is not a technological field related to the presently claimed invention. The noted claims are however simply a composition, not a, for example, method for balancing and thus any reference relating to a gelled material is related to the claimed invention. The argument concerning the make-up of the particles are also noted. Regardless of their make-up, however, the reference clearly describes them as a solid particulate material (e.g. claims 7 and 10 in the patent) – the claims require nothing more than this.

With respect to the rejection using Ronlan as primary reference, it is argued that Powell does not describe the particles as moving while it is agued that "Clay does not disclose a gel that incorporates a weighted material that is intended or indeed able to move around during the lifetime of the tire in response to changes in the balance of the wheel". These arguments have been carefully considered but are unpersuasive. While it is agreed that Powell does not describe or envision particle rebalancing, it still provides some evidence of an understanding of the artisan that the effectiveness of an applied semi-liquid tire balancing material can be enhanced by including heavy particles therein, this also reducing the volumes required for balancing. This teaching would have been reasonably expected to apply for any applied semi-liquid balancing material. Further, with respect to Clay, contrary to applicant's argument, Clay *expressly* describes that the particulate material flows to rebalance – e.g. col. 5, lines 74+.

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With respect to the other secondary references, it is again noted that with respect to the size of the particles, it would have been obvious for the artisan to determine an appropriate size though routine optimization based upon the necessary requirement that the material appropriate balance the tire, it further being obvious to look to analogous particle balancing systems that are known to be suitable and effective in this art to provide general guidance in this regard.

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Geoffrey L. Knable whose telephone number is 571-272-1220. The examiner can normally be reached on M-F.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Blaine Copenheaver can be reached on 571-272-1156. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Geoffrey L. Knable
Primary Examiner
Art Unit 1733

G. Knable December 11, 2004